Specimen Collection

Total Aliquots: **34,582 (in physical inventory)**
Aliquots added in March: **1,296**
% Change from previous month: **+55%**
% Change from previous year: **+247%**

Total Samples: **19,027 (historically collected)**
Samples added in March: **1,134**
% Change from previous month: **+82%**
% Change from previous year: **+613%**

Specimens (aliquots) Released for Research in March: **1,228**
Total Specimens Released for Research: **5,852**

New Contributing Sources: **0**
Total Contributing MD Sources/locations: **22**

Participants

BR Consented: **1,660**
New Consents in March: **35**
Non-Consented Contributors (inherited studies/remnant specimens): **5,326**

COVID-19

COVID+ Patients: **1,140** (107 BR Consented, 1033 from remnant clinical specimens)
Total COVID+ Aliquots collected: **4,110**
Aliquots added in March: **191**
Samples added in March: **136**

FLU

Flu A+: **755 (all dispatched)**
Flu B+: **338 (all dispatched)**
**Normal Samples**

Apparently Healthy Donors (Consented): **90**
Participants added in March: **0**
Apparently Healthy Donors (Remnant): **1,697**
Remnant AHD Specimens added in March: **353**

**Primary Diagnosis Breakdown**

**BR Consented only:**
- Organ Tx: 36%
- Heme/Onc: 28%
- Derm: 4%
- GI: 7%
- COVID-19: 9%
- Allergy: 3%
- Normals: 6%
- Other Specialties: 8%

**All Specimens (Including Inherited Studies):**
- Normals: 22%
- Oncology: 13%
- Organ Tx: 7%
- COVID-19: 18%
- Flu: 17%
- Infectious Disease: 20%
- Other: 3%
**Bio-Specimen Requests**

**Pending Requests:** 1

- Dr. Amitabh Pandey (SCMG) and Dr. Klaus Ley (La Jolla Institute for Immunology): Identifying key players in the humoral response to atherosclerosis.

**Requests Approved by the Oversight Committee in March:** 2

- Dr. Mike Nerenberg (Alamar Biosciences Inc.): Development of organ-specific plasma markers for robust detection of liver disease.
- Dr. Karen Menge (ChromaCode): Development and verification of SARS-CoV2+Flu+RSV diagnostic PCR test.

**Previously Approved Requests:**

- Dr. Adam Deising (SCMG): Discovery of molecular correlates of donor liver quality using clinical metrics from the liver outcome monitoring registry (LOMR).
- Dr. Nobuki Nakanishi (Allele Biosciences): Development of a point-of-care SARS-CoV-2 antigen detection kit using saliva or nasal swab, based on immunoassay.
- Dr. Douglas Gibson & Dr. Amitabh Pandey (SCMG): Association of genetic variants with risk of stroke in patients after left atrial appendage isolation.
- Dr. Sirpa Riistama-Laari (ThermoFisher): Cascadion™ SM clinical analyzer immunosuppressants panel on WB from solid organ Tx patients.
- Steve Head (Scripps Research): Evaluation of upper respiratory samples for detection of infectious disease.
- Dr. Sujan Shresta (LJI): Immune responses to SARS-CoV-2 infections including SARS-CoV-2 antibodies.
- Dr. Quan Nhu (SCMG) & Dr. John Teijaro (Scripps Research): Inflammatory and immunologic responses in SARS-CoV2-infected individuals.
- Dr. Mike Quigley, Dr Laura Nicholson, Dr Amitabh Pandey (SCMG) & Rick Hockett (Genalyte): Performance comparison of Genalyte Maverick SARS CoV-2 IgG/IgM COVID Serology Assay versus Abbott IgG SARS CoV-2.
- Dr. Erene Mina (ThermoFisher): High Throughput COVID/FLU testing.
- Dr. Dena Marrinucci (Truvian Sciences): SARS-CoV-2 antibody test development.
- Dr. Andrew Thompson (Scripps Research): Protein microarrays for high-throughput detection of SARS-CoV-2 neutralizing antibodies.
- Dr. Sunil Kurian (SCMG): Transplant biomarkers in PB MNC cell subsets using high-throughput RNaseq.
- Dr. Tridu Huynh, Dr. Andrew White (SCMG) & Dr. Silke Paust (Scripps Research): Immunophenotyping of innate and adaptive immunity in COVID-19 patients.
- Dr. Paul Harris (Takeda) & Dr. Gauree Konijeti (SCMG): Inflammatory bowel disease (IBD) registry.
- Dr. Tridu Huynh (SCMG) & Dr. Silke Paust (Scripps Research): Immunotherapy in a patient-derived xenograft model of human lung adenocarcinoma.
- Dr. Jon Blevitt (Janssen Research & Development): GVHD panel reactive antibodies (PRA) and complement dependent membrane attack complexes (MAC).
- Dr. Jeff W Kelly (Scripps Research) & Dr. Anuj Mahindra (SCMG): Development of small molecule kinetic stabilizers of amyloidogenic light chains to ameliorate cardiomyopathy.
- Dr. Tom Alsaigh (SCMG): Single cell RNA sequencing of human carotid artery following carotid endarterectomy.
- Dr. Sunil Kurian (SCMG): (1) RNA integrity & gene expression profiling comparison between whole blood samples collected directly into PAXgene tubes vs. WB collected into EDTA tubes and then aliquoted at different time points.
and placed in aquapreserve. (2) Gene expression profiling of delayed graft function in peripheral blood and kidney allografts.

- **Dr. Shannon Fortin-Ensign (SCMG):** Genomics of glioblastoma multiforme recurrence in long term survival.
- **Dr. Fay Bestou (IBBL), Dr. Jamie Case & Bethany Barrick (SCMG):** Pre-analytic SPREC code analysis in plasma samples.
- **Dr. Brian Modena (SCMG):** Genomic analysis of epithelial growth and repair mechanisms in aspirin exacerbated respiratory disease (AERD).
- **Dr. Jorge Moscat (SBPMDI) & Dr. Darren Sigal (SCMG):** Metabolic vulnerabilities in colorectal cancer.
- **Dr. Fouad Moawad (SCMG):** Scripps eosinophilic esophagitis registry study.
- **Dr. Mark Sundrud (Scripps Research) & Dr. Gauree Konijeti (SCMG):** Autoimmune prevention in Ulcerative Colitis and Crohn’s patients.
- **Dr. Leland Housman & Dr. Jamie Case (SCMG):** Differences in inflammatory cytokine levels between patients with varying severity of Chronic Venous Insufficiency.

Publications (From SCBBC Staff & Investigators Utilizing the SCBBC)


